

**VOLTAGE-VARIABLE CAPACITOR WITH**  
**INCREASED CURRENT CONDUCTING PERIMETER**

**ABSTRACT OF THE DISCLOSURE**

A parallel-plate, voltage-variable capacitor is designed to have an increased current conducting perimeter relative to its area. In one approach, the perimeter is increased by changing the shape of the plates. In another approach, the varactor is implemented by a number of disjoint plates, which are coupled in parallel.